



**CERTIFICATE OF ANALYSIS**

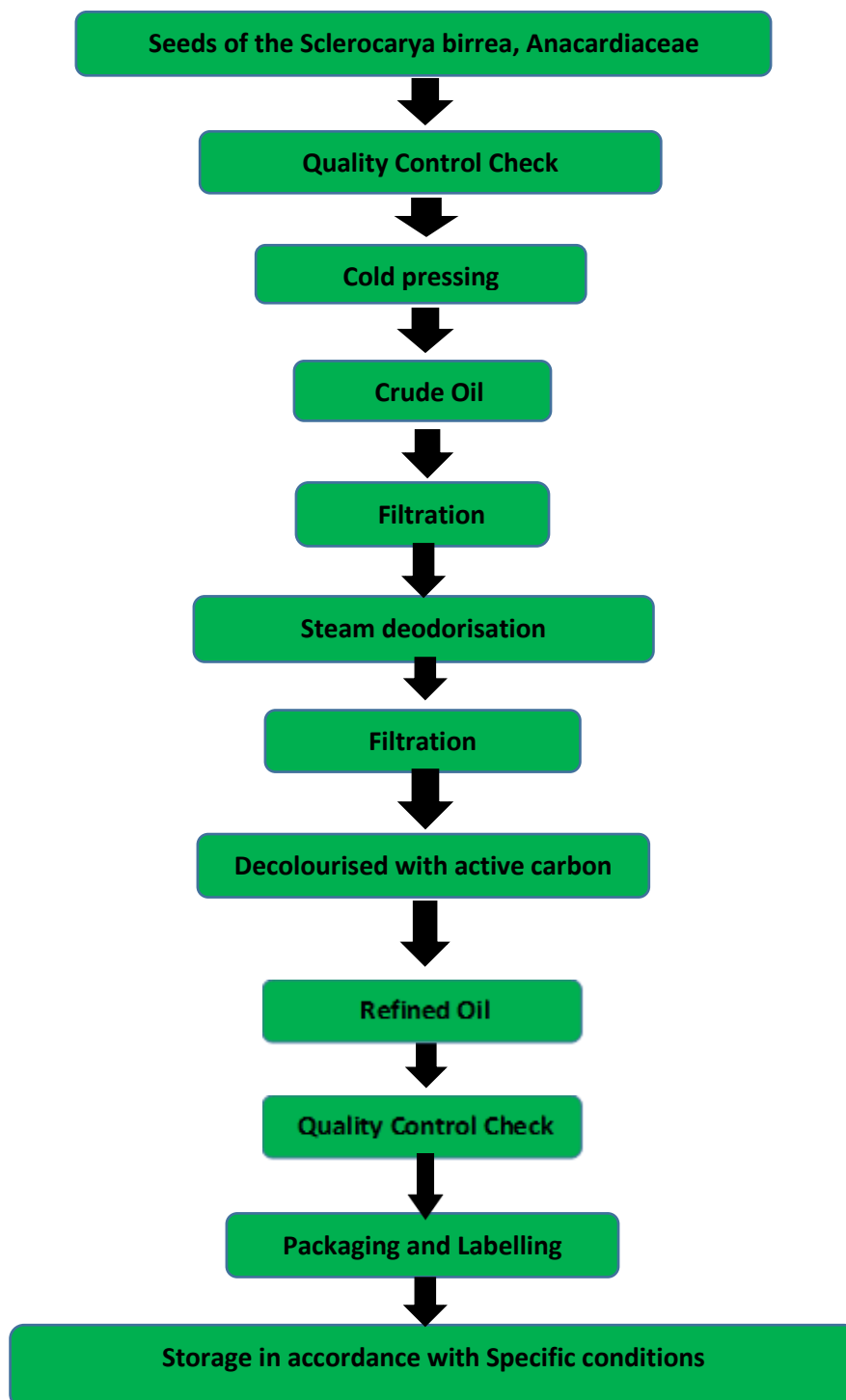
Product Marula  
Batch No: 4397906  
Best Before End: May 2022

**Appearance:** Liquid yellow to pale yellow  
**Odour:** Characteristic

TEST	SPECIFICATION	ANALYSIS
Refractive Index @ 20°C	1.462 – 1.479	1.472
Specific Gravity @ 20°C	0.910 – 0.925	0.918
Acid Value	1.0 maximum	0.08
Iodine Value (mgKOG/g)	100.0 – 120.0	108.8
Saponification Value	187 - 197	191.1
Optical Rotation @ 20°C	-10.0° to +10.0°	+0.44°

FATTY ACID PROFILE (%)		
C16:0 Palmitic	8.0 maximum	5.2
C18:0 Stearic	8.0 maximum	2.92
C18:1 Oleic Acid	48.0 - 62	54.1
C18:2 Linoleic	27 - 47	35.4

Product Name	Marula Oil
Date	04.05.2017





Document Date:

December 2018

**STATEMENT**

We hereby certify that the Marula Oil we sell is free of genetically modified materials and components. No ingredients, additives or processing aids of GM origin are used in the processing and purifying of the oil.



BiOrigins, 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK  
Tel: 01425 655555 Email: [technical@madarcorporation.co.uk](mailto:technical@madarcorporation.co.uk)



VAT No. 145 5270 74

Page 3 of 8

ANIMAL FEED REGISTRATION NO: GB / 703 / E3008



# Material Safety Data Sheet

Issue No 1

## 1. IDENTIFICATION OF SUBSTANCE/COMPANY/UNDERTAKING

**Product Name:** Marula Oil

**Company Name:** MADAR Corporation Limited  
19-20 Sandleheath Industrial Estate  
Fordingbridge  
Hampshire  
SP6 1PA

**Approved Sellers:** Mystic Moments, New Directions, World of Moulds

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

The product does not belong to any list of substances supposedly hazardous to human or animal health according to EU guideline 548/67 and further amendments, nor to those having recognised exposition limits.

**Inci Name:** Sclerocarya Birrea Seed Oil  
**CAS Number:** N/A  
**Einecs Number:** N/A  
**Chemical Composition:** Scelrocarya Birrea Seed Oil is the oil obtained from kernels of the Marula tree  
*Sclerocarya birrea*, *Anacardiaceae*.  
**Application:** Cosmetics

## 3. HAZARDS IDENTIFICATION

Non Hazardous

## 4. FIRST AID MEASURES

**Eye Contact:** Flush with water.  
**Skin Contact:** Wash with water and soap.  
**Ingestion:** If swallowed seek medical advice immediately and show the container or label.

## 5. FIRE FIGHTING EXTINGUISHING MEASURES

**Extinguishing media:** Carbon dioxide, foams, inert powder  
**Extinguishing media to avoid:** Water  
**Special Exposure hazards:** Fine oil mists may be hazardous. On extreme long heating at high temperature gaseous components occur of acrolein variety.  
**Protection against fire:** Standard measures in line with fire safety regulations.

## 6. ACCIDENTAL RELEASE MEASURES

**Spillage on Soil:** Use a solid absorbent and/or wash floors with detergent. May cause slip on floors. If solidified, shovel into containers.  
**Spillage on Water:** Since the density of oil is lower than water, it will appear on the surface. The fat can be scraped off the surface. Disposal according to UK/EU environmental regulations.

## 7. HANDLING & STORAGE MEASURES

At times oil-soaked materials may spontaneously combust. Use only in well ventilated areas, avoid contact with skin, eyes and clothing.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No special personal protective equipment required. Protective gloves and goggles when handling hot oil.

## 9. PHYSICAL & CHEMICAL PROPERTIES

Please see separate specification sheet.

## 10. STABILITY AND REACTIVITY

Conditions to Avoid:	High temperatures.
Material to avoid:	Strong acids and oxidising agents.
Hazardous decomposition	
Products:	Acrolein at extreme heating.
Hazardous reactions:	Polymerisation not likely to occur.
Shelf life:	Minimum 12 months if stored correctly.

## 11. TOXICOLOGICAL EFFECT

Non toxic product – pharmaceutical use – food grade

## 12. ECOLOGICAL INFORMATION

Readily biodegradable

## 13. DISPOSAL CONSIDERATIONS

Residue for disposal:	According to local regulations.
Waste packing:	Observe local regulations.

## 14. TRANSPORT INFORMATION

Not dangerous product	
Classification:	Not classified in RID/ADR/IMDG

## 15. REGULATORY INFORMATION

In compliance with the requirements in the current Cosmetic Directives 67/548 EEC et 1999/45/CE



## 16. OTHER INFORMATION

Cosmetics Directive 7<sup>th</sup> Amendment: Not restricted.

### **PACKAGING:**

Type	Suitability
Glass:	Yes
Lacquer lined steel/tin:	Yes
Aluminium:	Yes
HPPE:	Yes
F/HDPE:	Yes
Other Plastic:	Yes

The information contained herein is accurate to the best of our knowledge. No liability can be accepted arising out of the use, application or processing of this product. It is the Users responsibility to determine safe conditions for the use of this material.

Date of First Issue: 18.8.2010



# Specification Sheet

**Product Name: Marula Oil Refined**

Description: The fixed and subsequently refined oil from the seeds of the Sclerocarya Birrea.  
Applications: Cosmetics, aromatherapy and skin care etc  
Functions: Hair conditioning, Humectant

## ANALYTICAL PROPERTIES:

APPEARANCE: White to off white solid or pale yellow to yellow liquid  
ODOUR: Mild, slight  
Refractive Index @ 20°C: 1.462 – 1.479  
Specific Gravity @ 20°C: 0.910 – 0.925  
Acid Value: 1.0 maximum  
Iodine Value: 70 – 85  
Peroxide Value (meqO2/kg): < 5.0  
Saponification Value: 187 – 197  
Flash Point: > 250°C

Storage: In original container away from heat and light in a cool dry room  
Shelf Life: Recommend re-test after 12 months storage up to 2 years

## TYPICAL FATTY ACID PROFILE:

C16:0 Palmitic Acid: 8.0% maximum  
C18:0 Stearic Acid: 8.0% maximum  
C18:1 Oleic Acid: 48 – 60%  
C18:2 Linoleic Acid: 27 – 42%  
C20:0 Arachidic Acid: 1.5% maximum  
C22:0 Behenic Acid: 2.5% maximum

## DISCLAIMER:

The information contained herein is accurate to the best of our knowledge.  
No liability can be accepted arising out of the use, application or processing of this material.  
It is the Users responsibility to determine safe conditions for the use of this product.

First Issued: 18.08.2010 Re-Issued: 19.12.2014

Issue No.2



## **Vegetarian & Vegan Suitability Statement**

PRODUCT NAME: **Marula Oil**

MADAR Corporation Limited can confirm that the above listed product does not contain dairy or any other animal product, by product or derivative and is therefore suitable for vegetarian and vegan use.